

I. AMENDMENTS

AMENDMENTS TO THE CLAIMS

Cancel claims 30, 38-43, 45, 55, 57, 58, 60, 61, 69, 71-75, and 77-96 without prejudice to renewal.

Please enter the amendments to claims 59 and 63, as shown below.

1.-30. (Canceled)

31. (Previously presented) An isolated nucleic acid molecule that hybridizes under stringent conditions to a nucleic acid molecule comprising the nucleotide sequence set forth in SEQ ID NO:01, or its complementary sequence, wherein stringent hybridization conditions comprise hybridization at 50°C or higher in a solution comprising 15 mM sodium chloride and 1.5 mM sodium citrate, wherein said nucleotide sequence encodes a polypeptide that catalyzes the transfer of a sulfate group from a sulfate donor to a sulfate acceptor.

32. (Previously presented) An expression vector comprising the nucleic acid of claim 31.

33. (Previously presented) An isolated host cell comprising the expression vector of claim 32.

34. (Previously presented) The host cell of claim 33, wherein the cell is prokaryotic.

35. (Previously presented) The host cell of claim 33, wherein the cell is eukaryotic.

36. (Previously presented) A method of producing a glycosyl sulfotransferase-3 polypeptide, said method comprising:
growing a cell according to claim 33, whereby said polypeptide is expressed; and
isolating said polypeptide.

37.-58. (Canceled)

59. (Currently amended) The isolated nucleic acid of claim 31 ~~[[57]]~~, wherein said nucleic acid comprises the nucleotide sequence set forth in SEQ ID NO:1.

60.-62. (Canceled)

63. (Currently amended) A composition comprising the nucleic acid of claim 31 ~~any one of claims 31, 55, 57, 58, 59, and 60.~~

64. (Canceled)

65. (Previously presented) The composition according to claim 63, wherein said composition further comprises a test agent.

66. (Previously presented) The composition according to claim 63, wherein said composition further comprises a sulfate donor.

67. (Previously presented) The composition according to claim 63, wherein said composition further comprises a sulfate acceptor.

68. (Previously presented) The composition according to claim 67, wherein said sulfate acceptor is a selectin.

69. (Canceled)

70. (Previously presented) The expression vector of claim 32, wherein said nucleic acid is operably linked to an exogenous control region.

71.-96. (Canceled)